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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/680,208	10/08/2003	Alan J.A. Trainor	115-34US/12667/100119	7464
23838 VENIVONI & V	7590 12/26/2007		EXAMINER	
KENYON & KENYON LLP 1500 K STREET N.W. SUITE 700 WASHINGTON, DC 20005			ISAAC, STANETTA D	
			ART UNIT	PAPER NUMBER
			2812	
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•			12/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/680,208	TRAINOR, ALAN J.A.		
		Examiner	Art Unit		
		Stanetta D. Isaac	2812		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	vith the correspondence address		
A SH WHIC - Exte after - If NC - Failu Any	HORTENED STATUTORY PERIOD FOR REPL'CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1. To SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO a, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
	Posponeivo to communication(s) filed on 02 M	1av 2007			
کا(ا [2a]	Responsive to communication(s) filed on <u>03 May 2007</u> . This action is FINAL . 2b) This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
٥/١	closed in accordance with the practice under E	*	•		
Disposit	tion of Claims	, , , , , , , , , , , , , , , , , , , ,	•		
· ·					
4)(2)	Claim(s) <u>1-26</u> is/are pending in the application. 4a) Of the above claim(s) <u>3,4,8,13,14,20,21 and 25</u> is/are withdrawn from consideration.				
5)	Claim(s) is/are allowed.	a zo istalo wialatawii ilo	Traditionalion.		
'=	Claim(s) <u>1,2,5-7,9-12,15,16.17,18,22-24 and 2</u>	?6 is/are rejected.			
·	Claim(s) is/are objected to.	_ ,			
8)□	Claim(s) are subject to restriction and/o	r election requirement.			
Applicat	tion Papers				
	The specification is objected to by the Examine	er			
,	The drawing(s) filed on <u>08 October 2003</u> is/are:		objected to by the Examiner.		
	Applicant may not request that any objection to the	•	•		
	Replacement drawing sheet(s) including the correct	- · ·			
11)[The oath or declaration is objected to by the Ex	caminer. Note the attache	ed Office Action or form PTO-152.		
Priority (under 35 U.S.C. § 119				
•	Acknowledgment is made of a claim for foreign		§ 119(a)-(d) or (f).		
	1. Certified copies of the priority documents		Annliantian Na		
	2. Certified copies of the priority documents3. Copies of the certified copies of the priority		· · · · · · · · · · · · · · · · · · ·		
	application from the International Bureau	<u>=</u>	rreceived in this National Stage		
* (See the attached detailed Office action for a list		t received.		
	·				
Attachmer	nt(s)	_			
	ce of References Cited (PTO-892)		Summary (PTO-413) (s)/Mail Date		
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 4/19/05 &11/01/05.		Informal Patent Application		

DETAILED ACTION

This Office Action is in response to the amendment and election filed on 5/03/07 and 10/12/06, respectively. Currently, claims 1-26 are pending.

Election/Restrictions

- 1. Applicant's election without traverse of claims 1-26 in the reply filed on 10/12/06 is acknowledged. Applicant cancelled claims 27-32.
- 2. Newly submitted claims 3, 4, 8,13, 14, 20, 21, and 25 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the above claims are drawn to method claims

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 8, 13, 14, 20, 21 and 25 withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Information Disclosure Statement

3. The information disclosure statements (IDS) were submitted on 4/19/05 and 11/0105. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 211a and 212a.

Application/Control Number:

10/680,208

Art Unit: 2812

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 205. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

6. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claim 7 recites the limitation "the second semiconductor process" in line 2. There is insufficient antecedent basis for this limitation in the claim.

9.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claims 1, 2,5, 6, 7, 9-12,15-19, 22-24 and 26, are rejected under 35 U.S.C. 102(b) as being anticipated by Kitsukawa et al., US Patent 5,844,853.
- 12. Kitsukawa discloses the semiconductor apparatus as claimed. See figures 1a-18, and corresponding text where, Kitsukawa teaches pertaining to claims 1 and 17, an electronic apparatus comprising: a first integrated circuit semiconductor die 8a comprising: a first signal conditioning circuit integrated within the first integrated circuit die for performing a first signal conditioning function on a signal propagating along a first signal path (figure 3a; col. 3, lines 55-

Application/Control Number:

10/680,208

Art Unit: 2812

- 67); a first ancillary circuit integrated 22 within the first integrated circuit die and electrically coupled to the first signal conditioning circuit for other than performing the first signal conditioning function and for use by the first signal conditioning circuit during operation thereof (figure 3a; col. 4, lines 1-7); a second integrated circuit semiconductor die 8b comprising a second signal conditioning circuit integrated within the second integrated circuit die for performing a second signal conditioning function on a signal propagating along a second signal path that is different than the first signal path (figure 3b; col. 3, lines 55-67; col. 4, lines 1-7); a second ancillary circuit integrated 24 within the first integrated circuit semiconductor die and electrically coupled to the second signal conditioning circuit for other than performing the second signal conditioning function and for use by the second signal conditioning circuit during operation thereof (figures 3a and 3b; col. 3, lines 55-67; col. 4, lines 1-8); a substrate for supporting the first and second integrated circuit semiconductor dies and for providing electrical connection to and from the first and second integrated circuit semiconductor dies (figure 2a; col. 3, lines 30-55).
- 13. Kitsukawa teaches, pertaining to claim 2, wherein the first signal conditioning function and the second signal conditioning function provide similar signal conditioning operations (col. 4, lines 1-7).
- 14. Kitsukawa teaches, pertaining to claim 5, wherein the first signal conditioning circuit comprises at least a power amplifier circuit and where the function of the first signal conditioning circuit is for amplifying of an input signal using the at least a power amplifier circuit.

10/680,208 Art Unit: 2812

- 15. Kitsukawa teaches, pertaining to claim 6, wherein the second signal conditioning circuit comprises at least a power amplifier circuit and where the function of the second signal conditioning circuit is for amplifying of an input signal using the at least a power amplifier circuit.
- 16. Kitsukawa teaches, pertaining to claim 7, wherein the second semiconductor process does not facilitate manufacturing and integration of the second ancillary circuit therein (figure 3a-3b).
- 17. Kitsukawa teaches, pertaining to claim 9, wherein the first ancillary circuit comprises at least one of voltage regulation circuitry and temperature control circuitry (figures 3a and 3b; col. 4, lines 1-7).
- 18. Kitsukawa teaches pertaining to claim 10, wherein the second ancillary circuit comprises at least one of voltage regulation circuitry and temperature control circuitry (col. 4, lines 7-25).
- 19. Kitsukawa teaches, pertaining to claim 11, wherein the first integrated circuit die is derived from a first semiconductor wafer comprised of one of Si, SiGe, GaAs, InP, and GaN. (col. 1, lines 15-17)
- 20. Kitsukawa teaches pertaining to claim 12, wherein the second integrated circuit die is derived from a second semiconductor wafer the other one of Si, SiGe, GaAs, InP, and GaN (col. 1, lines 15-17).
- 21. Kitsukawa teaches, pertaining to claim 15, wherein the first integrated circuit die comprises a first interface port connected to the second ancillary circuit and wherein the second integrated circuit die comprises a second interface port connected to the second signal conditioning circuit, the second signal conditioning circuit for being connected to the second ancillary circuit using the first and second interface ports (figure 3a and 3b).

Application/Control Number:

10/680,208 Art Unit: 2812

22. Kitsukawa teaches, pertaining to claim 16, wherein the second signal conditioning circuit is for performing the second signal conditioning function in conjunction with operation of the second ancillary circuit (figures 3a and 3b).

- 23. Kitsukawa teaches, pertaining to claim 18, wherein the second integrated circuit die cannot provide the second function without operation of the second ancillary circuit (figure 3a and 3b; col. 4, lines 1-25)
- 24. Kitsukawa teaches, pertaining to claim 19, wherein the first signal conditioning function and the second signal conditioning function provide similar signal conditioning operations (figures 3a and 3b).
- 25. Kitsukawa teaches, pertaining to claim 22, wherein at least one of the first signal conditioning circuit and the second signal conditioning circuit comprises at least a power amplifier circuit. (figure 12; col. 7, lines 62-67l col. 8, lines 1-11)
- 26. Kitsukawa teaches, pertaining to claim 23, wherein the first ancillary circuit and the second ancillary circuit each comprises at least one of voltage regulation circuitry and temperature control circuitry (col. 4, lines 1-7).
- 27. Kitsukawa teaches, pertaining to claim 24, wherein the first integrated circuit die is derived from a first semiconductor wafer comprised of one of Si, SiGe, GaAs, InP, and GaN (col. 1, lines 15-17).
- 28. Kitsukawa teaches, pertaining to claim 26, comprising a module substrate for supporting the first and second integrated circuit semiconductor dies and for providing electrical connection to and from the first and second integrated circuit semiconductor dies (col. 4, lines 1-7).

10/680,208

Art Unit: 2812

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stanetta D. Isaac whose telephone number is 571-272-1671. The examiner can normally be reached on Monday-Friday 9:30am -6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Stanetta Isaac Patent Examiner December 20, 2007

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